

GenCore version 4.5  
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OM protein - protein search, using sw model

Run on: March 1, 2001, 15:47:07 ; Search time 210.42 Seconds  
(without alignments)  
6.988 Million cell updates/sec

Title: US-09-331-631a-3\_COPY\_74\_116

Perfect score: 250  
Sequence: 1 NQDDPQTDCCQCQCRRCROE.....RQDQYCRCKEICEEEERY 43

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 268485 seqs, 34193795 residues

Total number of hits satisfying chosen parameters: 268485

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

1: A.Geneseq\_36.\*  
2: /SIDSI/gcgcdata/geneseq/geneseq/AA1980.DAT.\*  
3: /SIDSI/gcgcdata/geneseq/geneseq/AA1981.DAT.\*  
4: /SIDSI/gcgcdata/geneseq/geneseq/AA1982.DAT.\*  
5: /SIDSI/gcgcdata/geneseq/geneseq/AA1983.DAT.\*  
6: /SIDSI/gcgcdata/geneseq/geneseq/AA1984.DAT.\*  
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14: /SIDSI/gcgcdata/geneseq/geneseq/AA1992.DAT.\*  
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20: /SIDSI/gcgcdata/geneseq/geneseq/AA1998.DAT.\*  
21: /SIDSI/gcgcdata/geneseq/geneseq/AA2000.DAT.\*

Prod. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	250	100.0	666	19	Macadamia integrifolia
2	242	96.8	666	19	Macadamia integrifolia
3	235	94.0	625	19	Macadamia integrifolia
4	112	44.8	525	19	Theobroma cacao an
5	112	44.8	566	13	Sequence encoded b
6	104	41.6	590	19	Gossypium hirsutum
7	87	34.8	28	19	Stenocarpus sinuat
8	66.5	26.6	342	20	Human secreted pro
9	66.5	26.6	637	19	Hordium vulgare pr
10	64.5	25.8	35	13	Antimicrobial maiz
11	64.5	25.8	593	19	Zea mays antimicro
12	63.5	25.4	33	19	Zea mays antimicro

13	62.5	25.0	107	17	R91705
14	62.5	25.0	107	20	V30404
15	61.5	24.6	51	18	W33694
16	61.5	24.6	176	18	W33695
17	61.5	24.6	301	19	W37085
18	61	24.4	919	10	P93109
19	61	24.4	919	18	W14783
20	61	24.4	919	21	V78914
21	59.5	23.6	151	14	R44806
22	59	23.6	151	21	V74634
23	59	23.6	199	21	V74635
24	59	23.6	910	20	V22191
25	58.5	23.4	88	20	V30416
26	58.5	23.4	514	19	W80400
27	58	23.2	445	21	V32374
28	58	23.2	447	17	W03326
29	57.5	23.0	98	21	V65429
30	57.5	23.0	150	8	P70058
31	57.5	23.0	281	21	V91958
32	57.5	23.0	405	19	W33737
33	57.5	23.0	509	14	R38210
34	57.5	23.0	529	14	R38209
35	57.5	23.0	621	21	V67309
36	57.5	23.0	1210	21	V50616
37	57	22.8	154	20	V33504
38	57	22.8	918	12	R12223
39	57	22.8	918	20	V33491
40	56	22.4	402	19	W57410
41	56	22.4	440	14	R33744
42	55.5	22.2	303	15	R60054
43	55	22.0	1447	20	W81029
44	54.5	21.8	293	20	V25095
45	54.5	21.8	304	13	R20063

#### ALIGNMENTS

RESULT 1  
ID W62829 standard; Protein: 666 AA.

AC W62829;  
DT 27-OCT-1998 (first entry)

DE Macadamia integrifolia antimicrobial protein.

KW antimicrobial protein; Infestation; control.

XX Macadamia integrifolia.

OS Macadamia integrifolia.

XX key  
FH Peptide Location/Qualifiers  
FT /note="signal peptide"

FT Protein  
FT /note="mature protein"

PN W09827805-A1.

XX 02-JUL-1998.

XX 22-DEC-1997; 97WO-AU00874.

XX 20-DEC-1996; 96AU-0004275.

XX (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.

PI Bower NT, Goulter KC, Green JL, Mannes JM, Marcus JP;

DR WPT: 1998-377279/32.

XX N-PSDB: V42311.

AcenAP23. Ancylos  
Nematode extracted  
Mouse proteamine 1.  
Mouse proteamine 1.  
Mouse proteamine 1  
Anti-human SC sing  
Human androgen rec  
Androgen receptor.  
Human androgen rec  
Human cyclin D3 ps  
Neisseria meningit  
Neisseria meningit  
Mouse brain CNG-1  
Mature nematode ex  
A secreted protein  
Mouse CNRER-1. Mu  
LXR-alpha, orphan  
Human 5' EST relat  
Human epidermal gr  
Human cytoskeleton  
Epidermal growth f  
LD2D304 EGF recept  
LD1D203 Apal. EGF r  
Epidermal growth f  
Human EGF receptor  
Human unliganded a  
Human androgen rec  
Human androgen rec  
Human EP3-V recept  
XR2. Homo sapiens  
Dirofilaria immiti  
Murine pcip protei  
Chicken type 2 RNA  
Human EDF-binding

```
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
PT useful for controlling microbial infestations of plants or mammals
PS Claim 1; Page 39-41; 96pp; English.
XX
XX
CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
XX
SQ Sequence 666 AA;

Query Match 100.0%; Score 250; DB 19; Length 666;
Best Local Similarity 100.0%; Pred. No. 1.5e-20;
Matches 43; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 NODDPQTDQCQRCRCROESGPRQOQYCGRRCKEICEEEY 43
   |||||||
DB 74 ngdppqtdcgcqrcrcrgesgprqgycqrcckeiiceeey 116

RESULT 2
W62828 standard; Protein; 666 AA.
XX
AC W62828;
XX
DT 27-OCT-1998 (first entry)
XX
DE Macadamia integrifolia antimicrobial protein.
XX
KW antimicrobial protein; infestation; control.
XX
OS Macadamia integrifolia.
XX
FH Key Location/Qualifiers
FT Peptide 1..28
FT /note= "signal peptide"
FT Protein 29..666
FT /note= "mature protein"
XX
PN WO9827805-A1.
XX
PD 02-JUL-1998.
XX
PF 22-DEC-1997; 97WO-AU00874.
XX
PR 20-DEC-1996; 96AU-0004275.
XX
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
DR WPI: 1998-377279/32.
DR N-PSDB: V42310.
XX
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
PT useful for controlling microbial infestations of plants or mammals
XX
PS Claim 1; Page 34-36; 96pp; English.
XX
CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
XX
SQ Sequence 666 AA;

Query Match 96.8%; Score 242; DB 19; Length 666;
Best Local Similarity 95.3%; Pred. No. 1.2e-19;
Matches 41; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 1 NODDPQTDQCQRCRCROESGPRQOQYCGRRCKEICEEEY 43
```

```
Db 74 ngdppqtdcgcqrcrcrgesgprqgycqrcckeiiceeey 116
   |||||||

RESULT 3
W62830 standard; Protein; 625 AA.
XX
AC W62830;
XX
DT 27-OCT-1998 (first entry)
XX
DE Macadamia integrifolia antimicrobial protein.
XX
KW antimicrobial protein; infestation; control.
XX
OS Macadamia integrifolia.
XX
FH Key Location/Qualifiers
FT Peptide 1..28
FT /note= "signal peptide"
FT Protein 29..666
FT /note= "mature protein"
XX
PN WO9827805-A1.
XX
PD 02-JUL-1998.
XX
PF 22-DEC-1997; 97WO-AU00874.
XX
PR 20-DEC-1996; 96AU-0004275.
XX
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
DR WPI: 1998-377279/32.
DR N-PSDB: V42316.
XX
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
PT useful for controlling microbial infestations of plants or mammals
XX
PS Claim 1; Page 43-45; 96pp; English.
XX
CC The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
XX
SQ Sequence 625 AA;

Query Match 94.0%; Score 235; DB 19; Length 625;
Best Local Similarity 93.0%; Pred. No. 6.9e-19;
Matches 40; Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 NODDPQTDQCQRCRCROESGPRQOQYCGRRCKEICEEEY 43
   |||||||
DB 33 ngdppqtdcgcqrcrcrgesgprqgycqrcckeiiceeey 75

RESULT 4
W62831 standard; Protein; 525 AA.
XX
AC W62831;
XX
DT 27-OCT-1998 (first entry)
XX
DE Theobroma cacao antimicrobial protein.
XX
KW antimicrobial protein; infestation; control.
XX
OS Theobroma cacao.
```



```
XX 27-OCT-1998 (first entry)
DT
XX Stenocarpus sinuatus antimicrobial protein.
DE
XX antimicrobial protein; infestation; control.
KM
XX Stenocarpus sinuatus.
OS
XX WO9827805-A1.
PN
XX 02-JUL-1998.
PD
XX 22-DEC-1997; 97WO-AU00874.
PF
XX 20-DEC-1996; 96AU-0004275.
PR
XX (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
PA
XX Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
PI WPI: 1998-377279/32.
DR
XX Novel anti-microbial protein from e.g. Macadamia integrifolia -
PT useful for controlling microbial infestations of plants or mammals
PS Claim 1; Page 66; 96pp; English.
XX
XX The sequence is that of an antimicrobial protein which can
CC be used to control microbial infestations in plants and mammalian
CC animals.
XX
XX Sequence 28 AA:
SQ
Query Match 34.8%; Score 87; DB 19; Length 28;
Best Local Similarity 59.3%; Pred. No. 0.0012;
Matches 16; Conservative 2; Mismatches 9; Indels 0; Gaps 0;
OY 4 DPQTDCCQRCRCROESGPRQOQY 30
DB 2 dptirgqlcmrcqgqekdptirgqgck 28
RESULT 8
ID Y16785 standard; Protein: 342 AA.
XX
AC Y16785;
XX
DT 27-JUL-1999 (first entry)
XX
DE Human secreted protein (clone c1489_14).
XX
KM Secreted protein; human; tissue marker; genetic disease; gene therapy;
KM veterinary medicine; cell proliferation; immunostimulant; infection;
KM immunosuppressant; autoimmune disease; organ rejection; tumour; anemia;
KM haematopoiesis; wound healing; fertility control; chemotaxis; analgesic;
KM thrombolytic; haemophilia; infarction; antimicrobial agent; cancer.
XX
OS Homo sapiens.
XX
PN WO9924469-A1.
XX
PD 20-MAY-1999.
XX
PF 06-NOV-1998; 98WO-US23829.
XX
PR 04-NOV-1998; 98US-0185936.
PR 07-NOV-1997; 97US-0965789.
XX
PA (GENV ) GENETICS INST INC.
XX
```

```
PI Agostino MJ, Evans C, Jacobs K, Lavallie ER, McCoy JM;
PI Merberg D, Racie LA, Treacy M;
XX
DR WPI: 1999-327362/27.
XX
DR N-PSDB: X60585.
XX
XX Nucleic acid encoding secreted human proteins
XX
XX Claim 30; Page 98-100; 107pp; English.
XX
XX The invention provides polynucleotides (X60579-X60687) encoding specific
CC secreted human proteins (Y16779-Y16787). The nucleic acid sequences are
CC deposited under the accession number ATCC 98580. The polynucleotides
CC are used as tissue markers, chromosomal tags, for diagnosis of genetic
CC diseases, to generate anti-protein or anti-DNA antibodies, also as
CC nutritional sources and supplements and in gene therapy. The secreted
CC proteins are useful therapeutically, in human or veterinary medicine,
CC e.g. for modulating cell proliferation or differentiation, as
CC immunostimulants or immunosuppressants (for treating infections,
CC autoimmune disease, organ rejection, or to induce tumour immunity), as
CC regulators of haematopoiesis (e.g. for treating anemia or in conjunction
CC with tumour therapy), to stimulate growth of tissue for wound healing, as
CC fertility control agents, for regulating chemotaxis or chemokines (e.g.
CC for directing cells to tumours or sites of infection), as haemostatic and
CC thrombolytic agents (e.g. in treatment of haemophilia or infarctions), as
CC antimicrobial agents, for modifying biohythms, appetite, or metabolism,
CC as analgesics and many other uses. The proteins are also used to raise
CC antibodies, used as diagnostic immunosay reagents also (when
CC neutralizing) for treating e.g. cancer.
XX
XX Sequence 342 AA:
SQ
Query Match 26.6%; Score 66.5; DB 20; Length 342;
Best Local Similarity 31.5%; Pred. No. 2.5;
Matches 17; Conservative 5; Mismatches 11; Indels 21; Gaps 3;
OY 5 PGT-DCQCCQRCRCROESGPRQOQ-----YCORCK-EIC 37
DB 34 pqlgdtqncqlrcdrdldgppsgqlgagasespydravllsacergclfsic 87
RESULT 9
ID W62837 standard; Protein: 637 AA.
XX
AC W62837;
XX
DT 27-OCT-1998 (first entry)
XX
DE Hordeum vulgare antimicrobial protein.
XX
KM antimicrobial protein; infestation; control.
XX
OS Hordeum vulgare.
XX
PN WO9827805-A1.
XX
PD 02-JUL-1998.
XX
PF 22-DEC-1997; 97WO-AU00874.
XX
PR 20-DEC-1996; 96AU-0004275.
XX
PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.
XX
PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;
XX
DR WPI: 1998-377279/32.
XX
PT Novel anti-microbial protein from e.g. Macadamia integrifolia -
XX useful for controlling microbial infestations of plants or mammals
XX
```

PS Claim 1; Page 60-62; 96pp; English.

XX The sequence is that of an antimicrobial protein which can  
CC be used to control microbial infestations in plants and mammalian  
CC animals.

XX Sequence 637 AA;

Query Match 26.6%; Score 66.5; DB 19; Length 637;

Best Local Similarity 39.4%; Pred. No. 4.5;

Matches 13; Conservative 7; Mismatches 8; Indels 5; Gaps 2;

OY 10 QQCQRCRQESGPRQOYCQRCKEICEE 42

DB 42 qgcvcrcrcr---pr---ysharcvqcrddq 69

RESULT 10

R21079 R21079 standard; Peptide; 35 AA.

AC R21079;

DT 09-APR-1992 (first entry)

DE Antimicrobial maize peptide, CMIII.

KM Maize; CMIII; corn; pathogen.

OS Zea mays.

PN EP465009-A.

PD 08-JAN-1992.

PF 05-JUN-1991; 91EP-0305064.

PR 05-JUN-1990; 90US-0536127.

PA (PION-) PIONEER HI-BRED INT.

PI Duvick JP, Rood TA, Rao AG;

DR WPI; 1992-010214/02.

PT Use of maize seed peptide CMIII and DNA encoding it - for killing  
or inhibiting plant pathogenic microorganisms.

PS Example 2; Page 5; 21pp; English.

CC The peptide (SEQ ID NO 1) was purified from public corn variety B73  
CC and propriety corn variety MHL8. It is basic and has a total  
CC mol. wt. of 3900 daltons. The peptide sequence was used to design  
CC probes which were used to screen a maize genomic or cDNA library.  
CC The isolated CMIII gene can be used to prepare an expression vector  
CC for prodn. of recombinant CMIII for use in controlling plant patho-  
CC genic organisms.  
CC See also Q20272 and 3.

XX Sequence 35 AA;

Query Match 25.8%; Score 64.5; DB 13; Length 35;

Best Local Similarity 44.0%; Pred. No. 0.49;

Matches 11; Conservative 6; Mismatches 7; Indels 1; Gaps 1;

OY 11 QQCQRC-RQESGPRQOYCQRCK 34

DB 6 ecrqclrrhegqpyetqecmrrc 30

RESULT 11

W62835  
ID W62835 standard; Protein; 593 AA.

AC W62835;

DT 27-OCT-1998 (first entry)

DE Zea mays antimicrobial protein.

KM antimicrobial protein; Infestation; control.

OS Zea mays.

PN W09827805-A1.

PD 02-JUL-1998.

PF 22-DEC-1997; 97WO-AU00874.

PR 20-DEC-1996; 96AU-0004275.

PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.

PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;

DR WPI; 1998-377279/32.

PT Novel anti-microbial protein from e.g. Macadamia integrifolia -  
useful for controlling microbial infestations of plants or mammals

PS Claim 1; Page 58-60; 96pp; English.

CC The sequence is that of an antimicrobial protein which can  
CC be used to control microbial infestations in plants and mammalian  
CC animals.

XX Sequence 593 AA;

Query Match 25.8%; Score 64.5; DB 19; Length 593;

Best Local Similarity 32.4%; Pred. No. 7.1;

Matches 11; Conservative 11; Mismatches 11; Indels 1; Gaps 1;

OY 2 QDDPQTRCQCCQRC-RQESGPRQOYCQRCK 34

DB 557 eeersgrqecrrqlrrhegqpwetqecmrrc 590

RESULT 12

W62836  
ID W62836 standard; Protein; 33 AA.

AC W62836;

DT 27-OCT-1998 (first entry)

DE Zea mays antimicrobial protein.

KM antimicrobial protein; infestation; control.

OS Zea mays.

PN W09827805-A1.

PD 02-JUL-1998.

PF 22-DEC-1997; 97WO-AU00874.

PR 20-DEC-1996; 96AU-0004275.

PA (RETR-) COOP RES CENT TROPICAL PLANT PATHOLOGY.

PI Bower NI, Goulter KC, Green JL, Manners JM, Marcus JP;

xx WP1: 1998-377279/32.  
xx  
xx Novel anti-microbial protein from e.g. Macadamia integrifolia -  
PT useful for controlling microbial infestations of plants or mammals  
xx  
xx Disclosure; Page 60; 96pp; English.  
xx  
CC The sequence is that of an antimicrobial protein which can  
CC be used to control microbial infestations in plants and mammalian  
CC animals.  
xx  
SQ Sequence 33 AA;  
  
Query Match 25.4%; Score 63.5; DB 19; Length 33;  
Best Local Similarity 44.0%; Pred. NO. 0.6;  
Matches 11; Conservative 6; Mismatches 7; Indels 1; Gaps 1

QY 11 OGORRC-RQOESGPRQQYCQRCK 34  
:::|:|:|:|:|:|:|:|:  
Db 6 ecrrgclrrhegqpwetqcemrcr 30

RESULT 13  
R91705 R91705 standard; Protein; 107 AA.

XX AC R91705;  
XX DT 17-NOV-1996 (first entry)  
XX DE AcANAP23.  
XX KW AcANAP; HPOANP; NamNAP; AceANP; AduANP; anticoagulant;  
KW nematode-extracted anticoagulant protein; serine protease;  
KW nematode; thrombosis; parasitic worm.  
XX Ancylostoma caninum.  
OS  
PN W09612021-A2.  
PD 25-APR-1996.  
XX PF 17-OCT-1995; 95WO-US13231.  
XX PR 05-JUN-1995; 95US-0486399.  
PR 18-OCT-1994; 94US-0326110.  
PR 05-JUN-1995; 95US-0461965.  
PR 05-JUN-1995; 95US-0465380.  
PR 05-JUN-1995; 95US-0486397.  
XX PA (CORV-) CORVAS INT INC.  
XX Bergum PW, Gansemans YGJ, Jespers LS, Laroche YR;  
PI Lauwerijs MJ, Messensjhl, Moyle M, Stanssens PEH;  
PI Vlasuk GP;  
XX WP1: 1996-222007/22.  
DR N-PSDB; T12951.  
XX

Proteins with anticoagulant and/or serine protease inhibitory activity, isolated from nematodes, are useful to blood collection tubes defining the collection of mammalian plasma. They are also useful to prevent or inhibit thrombosis, and may be given alone or in combination with other therapeutic or in vivo diagnostic agents.

Claim 221; Fig 13A; 243pp; English.

CC	The proteins can serve as immunogens to raise antibodies for use in
CC	the diagnosis and identification of NAP concn. levels in biological
CC	fluids; e.g. to detect mammalian infection with a parasitic worm.
CC	They can also be used as immunogens in prophylactic and therapeutic
CC	vaccines against parasitic worm infection. The proteins may
CC	double the clotting time of human plasma in prothrombin time assays
CC	when present at 10-50 nMol, and double the clotting time of human
CC	plasma in activated partial thrombin time assays when present
CC	at 10-100 nMol.
CC	The anticoagulant proteins are pref. derived from
CC	Ancylostoma caninum, A. ceylanicum, A. duodenale, Necator
CC	americanus or Heligmosomoides polygyrus.
CC	The proteins pref. have 2 NAP domains and specifically inhibit
CC	the catalytic activity of the factor VIIa/TF complex in the
CC	presence of factor Xa or a catalytically inactive factor Xa deriv..
CC	do not specifically inhibit the activation of factor VIIa in the
CC	absence of TF and do not specifically inhibit prothrombinase.
XX	
SQ	Sequence 107 AA;
Query Match	25.0%; Score 62.5; DB 17; Length 107;
Best Local Similarity	33.3%; Pred. No. 2.3;
Matches 13; Conservative 10; Mismatches 9; Indels 7; Gaps 2	
QY	12 CORRCROESGPRD-----QQVCCRCK-EICEEEERY 43 + : :     : :   :         :   Db 17 clgkpksekcphefclcdgnkkkpcrkckletseedy 55
RESULT 14	
Y30404	
Y30404 standard; Protein; 107 AA.	
XX	
AC Y30404;	
XX	
DT 15-NOV-1999 (first entry)	
DE Nematode extracted anticoagulant protein AcanaP23.	
XX	
Nematode extracted anticoagulant protein; NAP; anticoagulant;	
KW serine protease inhibitor; NAP domain; factor VIIa/TF.	
XX	
Ancylostoma caninum.	
OS US5955294-A.	
PN 21-SEP-1999.	
XX	
PD 19-APR-1996; 96US-063464I.	
XX	
PF 19-APR-1996; 96US-063464I.	
XX	
PR 18-OCT-1994; 94US-032611O.	
PR 05-JUN-1995; 95US-0461965.	
PR 05-JUN-1995; 95US-046538O.	
PR 05-JUN-1995; 95US-046639T.	
PR 05-JUN-1995; 95US-0466399.	
PR 17-OCT-1995; 95WO-US13231I.	
XX	
(CORV-) CORVAS INT INC.	
PA	
PB Bergum PM, Gansemans YGJ, Jespers LS, Laroche YR;	
PI Lauwereys MJ, Messens JHL, Moyle W, Stanssens PEH;	
PL Vlasuk GP;	
XX	
WP1; 1999-539569/45.	
DR N-PSDB; Z10452.	
XX	
Screening an isolated protein for Nematode-extracted Anticoagulant	
PT Protein domains	
XX	
Example 12; Fig 13A, 197pp; English.	
XX	



